100106667.052302 #9

SEQUENCE LISTING

<110> Afar, Daniel
        Hubert, Rene S.
        Leong, Kahan
        Raitano, Arthur B.
        Saffran, Douglas C.
        Mitchell, Steve Chappell

<120> NOVEL SERPENTINE TRANSMEMBRANE ANTIGENS
    EXPRESSED IN HUMAN CANCERS AND USES THEREOF

<130> 511582001601

<140> US 10/010,667
<141> 2001-12-06

<150> 09/323,873
<151> 1999-06-01

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<213> Homo sapiens

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Thr Ala His Ala Asp Glu Phe Asp Cys Pro Ser Glu Leu Gln His Thr
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Gln Glu Leu Phe Pro Gln Trp His Leu Pro Ile Lys Ile Ala Ala Ile
65                  70                  75                  80
Ile Ala Ser Leu Thr Phe Leu Tyr Thr Leu Leu Arg Glu Val Ile His
            85                  90                  95
Pro Leu Ala Thr Ser His Gln Gln Tyr Phe Tyr Lys Ile Pro Ile Leu
            100                 105                 110
Val Ile Asn Lys Val Leu Pro Met Val Ser Ile Thr Leu Leu Ala Leu
            115                 120                 125
Val Tyr Leu Pro Gly Val Ile Ala Ala Ile Val Gln Leu His Asn Gly
130                 135                 140
Thr Lys Tyr Lys Lys Phe Pro His Trp Leu Asp Lys Trp Met Leu Thr
145                 150                 155                 160
Arg Lys Gln Phe Gly Leu Leu Ser Phe Phe Phe Ala Val Leu His Ala
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Ile Tyr Ser Leu Ser Tyr Pro Met Arg Arg Ser Tyr Arg Tyr Lys Leu
            180                 185                 190
Leu Asn Trp Ala Tyr Gln Gln Val Gln Gln Asn Lys Glu Asp Ala Trp
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Ile Glu His Asp Val Trp Arg Met Glu Ile Tyr Val Ser Leu Gly Ile
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225                 230                 235                 240
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Leu Gly Ile Val Ser Leu Leu Leu Gly Thr Ile His Ala Leu Ile Phe
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Ala Trp Asn Lys Trp Ile Asp Ile Lys Gln Phe Val Trp Tyr Thr Pro
        275                 280                 285
Pro Thr Phe Met Ile Ala Val Phe Leu Pro Ile Val Val Leu Ile Phe
        290                 295                 300
Lys Ser Ile Leu Phe Leu Pro Cys Leu Arg Lys Lys Ile Leu Lys Ile
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<213> Homo sapiens

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<220>
<223> Primer


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<210> 5
<211> 24
<212> DNA
<213> Artificial Sequence


<220>
<223> Primer


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<210> 6
<211> 3627
<212> DNA
<213> Homo sapiens


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ataaggacac gggagagacc agcatgctaa aaagacctgt gcttttgcat ttgcaccaaa         240
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<212> PRT

4

<213> Homo sapiens

<400> 8

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Ala Ala Tyr Gln Leu Tyr Tyr Gly Thr Lys Tyr Arg Arg Phe Pro Pro
                35                  40                  45
Trp Leu Glu Thr Trp Leu Gln Cys Arg Lys Gln Leu Gly Leu Leu Ser
    50                  55                  60
Phe Phe Phe Ala Met Val His Val Ala Tyr Ser Leu Cys Leu Pro Met
65                  70                  75                  80
Arg Arg Ser Glu Arg Tyr Leu Phe Leu Asn Met Ala Tyr Gln Gln Val
                85                  90                  95
His Ala Asn Ile Glu Asn Ser Trp Asn Glu Glu Glu Val Trp Arg Ile
                100                 105                 110
Glu Met Tyr Ile Ser Phe Gly Ile Met Ser Leu Gly Leu Leu Ser Leu
                115                 120                 125
Leu Ala Val Thr Ser Ile Pro Ser Val Ser Asn Ala Leu Asn Trp Arg
                130                 135                 140
Glu Phe Ser Phe Ile Gln Ser Thr Leu Gly Tyr Val Ala Leu Leu Ile
145                 150                 155                 160
Ser Thr Phe His Val Leu Ile Tyr Gly Trp Lys Arg Ala
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<210> 9
<211> 322
<212> DNA
<213> Homo sapiens

<400> 9

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attactttgc tctccctagt ataccttgca ggtcttctgg cagctgctta tcaactttat     180
tacggcacca agtataggag atttccacct tggttggaaa cctggttaca gtgtagaaaa     240
cagcttggat tactaagttg tttcttcgct atggtccatg ttgcctacag cctctgctta     300
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<211> 183
<212> DNA
<213> Homo sapiens

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tgtgactgag tgttggccag tgagatgaag tctcctcaaa ggaaggcagc atgtgtcctt     180
ttt                                                                    183
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<210> 11
<211> 448
<212> DNA
<213> Homo sapiens

<400> 11

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5

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ggaatacttg ggtttttttct gtttgtactc ttgggaatca cttctttgcc atctgttagc    120
aatgcagtca actggagaga gttccgattt gtccagtcca aactgggtta tttgacccctg    180
atcttgtgta cagcccacac cctggtgtac ggtgggaaga gattcctcag cccttcaaat    240
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gttctacctn cctcccacct tcacgntcac gctgctggtg ccctgcgttc gttcatcctg    360
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<210> 13
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<213> Artificial Sequence

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<223> RT-PCR Primer AI139607.1

<400> 13
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<210> 14
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<220>
<223> RT-PCR primer AI139607.2

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<210> 15
<211> 23
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<213> Artificial Sequence

<220>
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6

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<210> 16
<211> 24
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<213> Artificial Sequence

<220>
<223> RT-PCR primer R80991.2

<400> 16
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<210> 17
<211> 24
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<223> RT-PCR primer 98P4B6.1

<400> 17
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<210> 18
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<400> 18
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<210> 19
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<212> PRT
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<220>
<223> STEAP-1 peptide

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Lys Ile Pro Ile Leu Val
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<210> 20
<211> 34
<212> PRT
<213> Artificial Sequence

<220>
<223> STEAP-1 peptide

7

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Glu Ile

<210> 21
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<212> PRT
<213> Artificial Sequence

<220>
<223> STEAP-1 PEPTIDE

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<210> 22
<211> 14
<212> DNA
<213> Artificial Sequence

<220>
<223> cDNA Synthesis primer

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ttttgtacaa gctt   14

<210> 23
<211> 44
<212> DNA
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<220>
<223> DNA Adaptor 1

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<210> 24
<211> 42
<212> DNA
<213> Artificial Sequence

<220>
<223> DNA Adaptor 2

<400> 24
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<210> 25
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8

<213> Artificial Sequence

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<400> 25
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<210> 26
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<210> 27
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<220>
<223> Nested primer (NP) 2

<400> 27
agcgtggtcg cggccgaggt   20

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<220>
<223> RT-PCR primer 1A

<400> 28
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<210> 29
<211> 24
<212> DNA
<213> Artificial Sequence

<220>
<223> RT-PCR primer 1B

<400> 29
cagaacttca gcacacacag gaac   24

<210> 30
<211> 25
<212> DNA
<213> Artificial Sequence

9

<220>
<223> primer

<400> 30
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<210> 31
<211> 26
<212> DNA
<213> Artificial Sequence

<220>
<223> primer

<400> 31
agccacacgc agctcattgt agaagg   26

<210> 32
<211> 15
<212> PRT
<213> Homo sapiens

<400> 32
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1   5   10   15